

Complete Listing of the Claims

1. (Previously Presented) A gearless cable-operated elevator comprising a drive sheave drive including a drive sheave (2) several parallel carrier cables, and a spaced counter sheave (3), the cables being guided from the drive sheave (2) to the counter sheave (3), back to the drive sheave (2), and wrapped around the drive sheave (2) and arranged above or below a cage (6) with guide rails being provided for said cage (6) and a counterweight (11) being attached to the carrier cables, for a machine-room-free installation, characterized in that said carrier cables are steel cables having a nominal diameter between 5 to 7 mm and run in semicircular grooves in the sheaves having undercut portions each with a width between 1 and 3 mm and that the ratio of the drive sheave diameter to the nominal diameter of said carrier cables is less than 40.
2. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that the ratio of the drive sheave diameter to the nominal diameter of said carrier cables essentially is 30.
3. (Previously Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that it said elevator is configured for useful cage loads of up to 2000 kg and that said carrier cables have a nominal diameter of essentially 7 mm and the ratio of the drive sheave diameter to the nominal diameter of said carrier cables preferably being about 34.
7. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that said elevator is configured for useful cage loads between 300 kg and 1000 kg in particular.

8. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that said counter sheave (3) serves simultaneously as a distancing deflection sheave.
9. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that, for adaptation to the occurring cable forces alone, the number of applied carrier cables is variable in said drive sheave drive.
10. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that said drive sheave (2) and said counter sheave (3) of said drive sheave drive are vertically arranged with respect to one another and in the area of a shaft head in the area of a shaft pit.
11. (Previously Cancelled)
12. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that said drive sheave (2) and said counter sheave (3) of said drive sheave drive are arranged on the bottom or on the roof of said cage (6).
13. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that said drive sheave drive is fixed to an elevator frame for said elevator.
14. (Previously Presented) The gearless cable-operated elevator of claim 12, characterized in that holding elements for said drive sheave drive are integrated in a cage frame or in a cage main support.
15. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that a cage suspension for the elevator is provided with a ratio of 1 to 1.

16. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that a loose pulley cage suspension for the elevator is provided with a ratio of between 2 to 1 and 4 to 1.

17. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that said carrier cables are single-layer round core cables.

18. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that a motor of said drive sheave drive is a three-phase asynchronous motor or a three-phase synchronous motor.

19. (Previously Presented) The gearless cable-operated elevator of claim 1, characterized in that a motor of said drive sheave drive is embodied without mechanical emergency stop braking device.

20. (Previously Cancelled)

21. (Previously Cancelled)